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INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	DOCKET NO. 0020/15302	SERIAL NO. 09/883,734
	APPLICANT THOMPSON et al.	
	FILING DATE June 18, 2001	GROUP 1774

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS

EXAMINER INITIAL		Reactivity	Co-ordinated	Author, Title, Date, Pertinent Pages, Etc.
May	0			B.N. Cockburn, et al., "Reactivity of Co-ordinated Ligands. Part XV. Formation of Complexes containing Group V Donor Atoms and Metal Carbon $\pi$ -bonds", Journal of the Chemical Society, Dalton Transactions, Vol. 4 (1973), pp. 404-410. (no month)
		Donor Atoms	Metal-Carbon	
				Vol. 4 (1973), pp. 404-410.

EXAMINER Marie R. Yemnitzky	DATE CONSIDERED 01/13/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
MEY	0	J.K. Lee, et al., "Thin film light emitting devices from an electroluminescent ruthenium complex", Appl. Phys. Lett., 69 (12), pp. 1686-1688, 16 September 1996.
MEY	0	D. Yoo, et al., "New Electro-Active Self-Assembled Multilayer Thin Films Based on Alternately Adsorbed Layers of Polyelectrolytes and Functional Dye Molecules", Synthetic Metals, 85, pp. 1425-1426, 1997. (no month)
MEY		J-K. Lee et al., "Thin Film Light Emitting Heterostructures: From Conjugated Polymers to Ruthenium Complexes to Inorganic Nanocrystallites," Abstracts of Papers, Part 2, 213 <sup>th</sup> ACS National Meeting, American Chemical Society, San Francisco, CA, Apr. 13-17, 1997, No. 200.

<b>EXAMINER</b> <i>Marie R. Yarnitzky</i>	<b>DATE CONSIDERED</b> <i>12/10/02</i>
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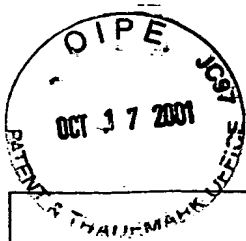
## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>Mey</i>	0	J. Lee, et al., "Synthesis and Characterization of an Electroluminescent Polyester Containing the Ru(II) Complex", Chem. Mater., 1997, Vol. 9, No. 8, pp. 1710-1712. (no month)

<b>EXAMINER</b> <i>Maie R. Yarnitzky</i>	<b>DATE CONSIDERED</b> <i>12/10/02</i>
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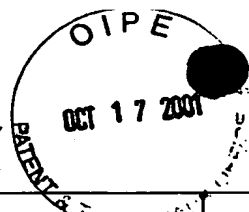
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	OCT 19 2001 CLASS	SUBCLASS	FILING DATE*
MR4	4,455,506	June 19, 1984	Ayyagari et al.	313	506	—
	4,758,765	July 19, 1988	Mitsumori	313	506	—
	4,769,292	September 6, 1988	Tang et al.	428	690	—
	4,950,950	August 21, 1990	Perry et al.	313	504	—
	5,294,870	March 15, 1994	Tang et al.	313	504	—
	5,439,794	August 8, 1995	Barton	—	—	—
	5,540,999	July 30, 1996	Yamamoto et al.	428	411.1	—
	5,663,573	September 2, 1997	Epstein et al.	257	40	—
	5,674,597	October 7, 1997	Fuji et al.	428	212	—
	5,698,048	December 1997	Friend et al.	136	263	—
	5,703,436	December 30, 1997	Forrest et al.	313	506	—
	5,707,745	January 13, 1998	Forrest et al.	428	432	—
	5,757,026	May 26, 1998	Forrest et al.	257	40	—
	5,757,139	May 26, 1998	Forrest et al.	315	169.3	—
	5,811,833	September 22, 1998	Thompson	257	40	—
	5,834,893	November 10, 1998	Bulovic et al.	313	506	—
	5,840,897	November 24, 1998	Kirlin et al.	—	—	—
	5,844,363	December 1, 1998	Gu et al.	313	506	—
	5,861,219	January 19, 1999	Thompson et al.	428	690	—
	5,874,803	February 23, 1999	Garbuzov et al.	313	506	—
	5,917,280	June 29, 1999	Burrows et al.	313	506	—
	5,932,895	August 3, 1999	Shen et al.	257	89	—
	5,986,401	November 16, 1999	Thompson et al.	313	504	—
	6,013,982	January 11, 2000	Thompson et al.	313	506	—
	6,045,930	April 4, 2000	Thompson et al.	428	690	—
	6,046,543	April 4, 2000	Bulovic et al.	313	504	—
	6,048,630	April 11, 2000	Burrows et al.	428	690	—
	6,091,195	July 18, 2000	Forrest et al.	313	504	—
	6,097,147	August 1, 2000	Baldo et al.	313	506	—
MR4	6,111,902	August 29, 2000	Kozlov et al.	372	39	—

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
MR4	6,125,226	September 26, 2000	Forrest et al.	385	131	—
MR4	6,160,828	December 12, 2000	Bulovic et al.	372	39	—

FOREIGN PATENT DOCUMENTS

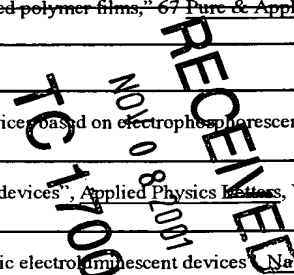
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	RECEIVED		TRANSLATION	
				CLASS	SUBCLASS	YES	NO
MR4	96/19792	June 27, 1996	WO	OCT 19 2001		X	
MR4	97/33296	September 12, 1997	WO	TC 1700		X	
MR4	97/48115	December 18, 1997	WO	—	—	X	
MR4	97/48139	December 18, 1997	WO	—	—	X	
MR4	98/50989	November 12, 1998	WO	—	—	X	

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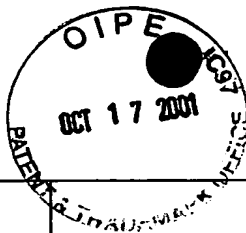
EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	S. W. Depp and W. E. Howard, "Flat Panel Displays," <u>Scientific American</u> 90 (March 1993).
	D. Z. Garbuzov et al., "Photoluminescence Efficiency and Absorption of Aluminum Tris-Quinolate (Alq <sub>3</sub> ) Thin Films," <u>249 Chemical Physics Letters</u> 433-437 (1996).
	C. E. Johnson et al., "Luminescent Iridium (I), Rhodium (I), and Platinum (II) Dithiolate Complexes," <u>105 Journal of the American Chemical Society</u> 1795-1802 (1983).
	Hosokawa et al., "Highly efficient blue electroluminescence from a distyrylarylene emitting layer with a new dopant," <u>67 Appl. Phys. Lett.</u> 3853-3855 (December 1995).
	Adachi et al., "Blue light emitting organic electroluminescent devices," <u>56 Appl. Phys. Lett.</u> 799-801 (February 1990).
	C. C. Wu et al., "Integrated three color organic light emitting devices," <u>69 Appl. Phys. Lett.</u> 3117-3119 (November 1996).
	H. Vestweber et al., "Electroluminescence from polymer blends and molecularly doped polymers," <u>64 Synthetic Metals</u> 141-145 (1994).
	Burrows et al., "Color Tunable Organic Light Emitting Devices," <u>69 Appl. Phys. Lett.</u> 2959 (November 11, 1996).
	D. Z. Garbuzov et al., "Organic films deposited on Si p-n junctions: Accurate measurements of fluorescence internal efficiency, and application to luminescent antireflection coatings," <u>80 J. Appl. Phys.</u> 4644-4648 (October 1996).
	P. E. Burrows et al., "Reliability and degradation of organic light emitting devices," <u>65 Appl. Phys. Lett.</u> 2922-2924 (December 1994).
	H. A. MacLeod, <u>Thin Film Optical Filters</u> , pp. 94-110 (1969).
	Johnson et al., "Electroluminescence from Single Layer Molecularly doped polymer films," <u>67 Pure &amp; Appl. Chem.</u> , 175-182 (1995).
MR4	H. Gilman, et al., <u>J. Am. Chem. Soc.</u> , 71, 1870-1871 (1949).
MR4	M.A. Baldo, et al., "Very high efficiency green organic light-emitting devices based on electrophosphorescence", <u>Applied Physics Letters</u> , Vol. 75, No. 1, pp. 4-6, (1999) (July 1999).
MR4	D.F. O'Brien, et al., "Improved energy transfer in electrophosphorescent devices", <u>Applied Physics Letters</u> , Vol. 74, Number 3, pp. 442-444, (January 18, 1999).
MR4	M.A. Baldo, et al., "Highly efficient phosphorescent emission from organic electroluminescent devices", <u>Nature</u> , Vol. 395, pp. 151-154, (September 1998).
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MEY	G.R. Newkome, et al., 86 <i>Chem. Rev.</i> , 451 (1986). <sup>-489</sup> (no month)
MEY	A.D. Ryabov, 90 <i>Chem. Rev.</i> , 403 (1990). <sup>-424</sup> (no month)
MEY	M. Maestri, et al., 47 <i>Adv. Photochem.</i> , 1-68 (1992). <sup>-2444</sup> (no month)
MEY	L. Chassot, et al., 66 <i>Helv. Chim. Acta.</i> , 2443 (1983). <sup>-2444</sup> (no month)
MEY	L. Chassot, et al., 23 <i>Inorg. Chem.</i> , 4249 (1984). 4249-4253 (Dec 1984). 2007
MEY	S. Bonafede, et al., 90 <i>J. Phys. Chem.</i> , 3836 (1986). 3836-3841 (July 1986).
MEY	L. Chassot, et al., 108 <i>J. Am. Chem. Soc.</i> , 6084 (1986). <sup>6084-6085</sup> (no month)
MEY	Ch. Cornioley-Deuschel, et al., 26 <i>Inorg. Chem.</i> , 3354 (1987). 3354-3358 (Oct. 1987).
MEY	L. Chassot, et al., 26 <i>Inorg. Chem.</i> , 2814 (1987). 2814-2818 (Aug. 1987).
MEY	A. von Zelewsky, et al., 32 <i>Inorg. Chem.</i> , 4585 (1993). 4585-4593 (Oct. 1993).
MEY	A. von Zelewsky, et al., 132 <i>Coord. Chem. Rev.</i> , 75 (1994). <sup>75-85</sup> (no month)
MEY	P. Joliet, et al., 35 <i>Inorg. Chem.</i> , 4883 (1996). 4883-4888 (Aug. 1996).
MEY	H. Wiedenhofer, et al., 99 <i>J. Phys. Chem.</i> , 13385 (1995). <sup>-13391</sup> (no month)
MEY	M. Gianini, et al., 36 <i>Inorg. Chem.</i> , 6094 (1997). 6094-6098 (1997). (no month)
MEY	M. Maestri, et al., 122 <i>Chem. Phys. Lett.</i> , 375 (1985). 375-379 (Dec. 1985).
MEY	M. Maestri, et al., 71 <i>Helv. Chim. Acta.</i> , 1053 (1988). <sup>-1059</sup> (no month)
MEY	T. Kaufmann, et al. 116 <i>Chem. Ber.</i> , 992 (1983). <sup>-1000</sup> (no month)
MEY	D.H. Hey, et al., <i>J. Chem. Soc.</i> , 3963 (1955). <sup>-3969</sup> (no month)
MEY	R.A. Abramovitch, et al., <i>J. Chem. Soc.</i> , 2175 (1964). <sup>-2187</sup> (no month)
MEY	J.C.W. Evans, et al., 2 <i>Org. Synth. Coll.</i> , 517 (1943). <sup>-519</sup> (no month)
MEY	R.E. Moore, et al., 23 <i>J. Org. Chem.</i> , 1504 (1958). 1504-1506 (Oct. 1958).
MEY	A. Uehara, et al., 239 <i>J. Organomet. Chem.</i> , 1 (1982). <sup>-10</sup> (no month)
MEY	H. Takaya, et al., 67 <i>Org. Synth.</i> , 20 (1989). <sup>-93</sup> (no month)
MEY	G.B. Kauffman, et al., 6 <i>Inorg. Synth.</i> , 211 (1957). <sup>-215</sup> (no month)
MEY	A. Shoustikov, et al., 91 <i>Synth. Met.</i> , 217 (1997). <sup>-221</sup> (no month)
MEY	C.W. Tang, et al., "Organic Electroluminescent Diodes", 51 <i>Appl. Phys. Lett.</i> , 913 (1987). 913-915 (Sept. 1987).
MEY	S.R. Forrest, et al., "Organic Emitters Promise a New Generation of Displays", <i>Laser Focus World</i> (Feb. 1995).
MEY	Gary L. Miessler, et al., <i>Inorganic Chemistry</i> , 2nd Edition, Prentice-Hall (1997), pages 422 and 424. *
	H. Zollinger, <i>Color Chemistry</i> , VCH Publishers, (1991).
MEY	H.J.A. Dartnall, et al., 220 <i>Proc. Roy. Soc. B</i> (London), 115-130 (1983). (no month)
MEY	Kido, J., et al., <i>Applied Physics Letters</i> , 73, 2721 (1998). 2721-2723 (Nov 1998)
MEY	I.G. Hill, et al., "Combined photoemission/ <i>in vacuo</i> transport study of the indium tin oxide/copper phthalocyanine/N, N'-diphenyl-N, N'-bis (2-naphthyl)-1,1' biphenyl-4,4" diamine molecular organic semiconductor system", <i>Journal of Applied Physics</i> , Vol. 86, Number 4, 2116-2122, (August 1999).
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MEY	L.S. Hung, "Enhanced electron injection in organic electroluminescence devices using an Al/LiF electrode", <i>Appl. Phys. Lett.</i> , 70(2), 152-154, (January 1997).

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MRy		G. Gu, et al., "High-external-quantum-efficiency organic light-emitting devices", <u>Optics Letters</u> , Vol. 22, No. 6, 396-398, (March 1997).
MRy		Hoshino et al., "Electroluminescence from triplet excited states of benzophenone". <u>Appl. Phys. Lett.</u> 69(2), 224-226, (July 1996).
MRy		C.H. Chen, et al., "Recent developments in molecular organic electroluminescent materials", <u>Macromolecular Symposia</u> , 125, 1-48 (1997). (no Month)
MRy		C. W. Tang, et al., "Electroluminescence of doped organic films," 65 <u>J. Appl. Phys.</u> , 3610-3616, (1989). May
MRy		V. Bulovic, et al., "Bright, saturated, red-to-yellow organic light-emitting devices based on polarization-induced spectral shifts," <u>Chem. Phys. Lett.</u> , 287, 455-460 (1998). (no Month)
MRy		M. A. Baldo et al., "Excitonic singlet-triplet ratio in a semiconducting organic thin film". <u>Physical Review B</u> , pp. 422-428 (15 November 1999). 14/22-14/28
MRy		M. A. Baldo et al., "High-Efficiency fluorescent organic light-emitting devices using a phosphorescent sensitizer", <u>Nature</u> , Vol. 403, pp. 750-753, February 17, 2000.
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\* - Copy of reference enclosed.

EXAMINER	Marie R. Granitzky	DATE CONSIDERED	12/10-11/02
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<p style="text-align: center;">O I P E J C 1 0 6 FEB 11 2002 PATENT &amp; TRADEMARK OFFICE</p> <p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449</b></p>	DOCKET NO. 10020/15302	SERIAL NO. 09/883,734
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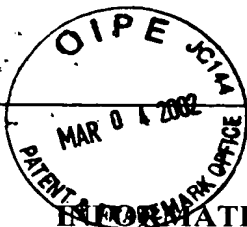
EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>MB</i>		Gary L. Miessler, et al., <u>Inorganic Chemistry</u> , 2nd Edition, Prentice Hall (1999), pages 1-3, 422-424. (no month) ✓

EXAMINER <i>Marie R. Yarnitzky</i>	DATE CONSIDERED <i>12/10/02</i>
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\* See citations on PTO-1449 filed May 23, 2002.

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EXAMINER INITIAL	DOCUMENT NUMBER	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
Mei		Y. Kunugi, et al., "A Vapochromic LED", J. Am. Chem. Soc., Vol. 120, No. 3, pp. 589-590, 1998.
		(published on Web 01/07/1998).

EXAMINER	Maie R. Yarnitzky	DATE CONSIDERED	12/10/02
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MR4	4,539,507	September 3, 1985	VanSlyke et al.	313	504	—
	5,231,329	July 27, 1993	Nishikitani et al.	313	503	—
	5,247,190	September 21, 1993	Friend et al.	257	40	—
	5,953,587	September 14, 1999	Forrest et al.	438	99	—
	5,981,306	November 9, 1999	Burrows et al.	438	22	—
	5,986,268	November 16, 1999	Forrest et al.	250	372	—
	5,998,803	December 7, 1999	Forrest et al.	257	40	—
	6,013,538	January 11, 2000	Burrows et al.	438	22	—
	6,030,715	February 29, 2000	Thompson et al.	428	690	—
	5,203,974	April 20, 1993	Kokado et al.	—	—	—
	5,128,587	July 7, 1992	T. Skotheim, et al.	313	504	—
	5,756,224	May 26, 1998	H. F. Börner, et al.	428	690	—
	5,457,565	October 10, 1995	Namiki et al.	359	273	—
	5,834,130	November 10, 1998	Kido et al.	428	690	—
	5,601,903	February 11, 1997	Fujii et al.	428	212	—
	5,294,810	March 15, 1994	Egusa et al.	257	40	—
	5,504,183	April 2, 1996	Shi et al.	528	272	—
	5,554,220	September 10, 1996	Forrest et al.	—	—	—
	6,358,631	March 19, 2002	Forrest et al.	428	690	—
	6,242,115	June 5, 2001	Thompson et al.	428	690	—
	6,337,102	January 8, 2002	Forrest et al.	427	690	—
	5,811,834	September 22, 1998	Tamano et al.	257	40	—
	5,989,738	November 23, 1999	Haase et al.	428	690	—
	6,083,634	July 4, 2000	Shi	428	690	—
	6,013,429	January 11, 2000	Franke et al.	430	551	—
	6,091,382	July 18, 2000	Shioya et al.	345	76	—
MR4	6,303,238	October 16, 2001	Thompson et al.	428	690	—

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						YES	NO
MRy	0 704 915	April 3, 1996	EP	—	—	X	
MRy	3-289090	December 19, 1991	JP	—	—	X+	

+ - English language abstract provided.

## OTHER DOCUMENTS

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MRy	0	J. Kido, et al., "Electroluminescence in a Terbium Complex", Chemistry Letters, 1990, pp. 657-660 (no month)
MRy	0	J. Kido, et al., "Organic electroluminescent devices using lanthanide complexes", J. Alloys and Compounds, 1993, 192, pp. 30-33. (no month)
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\* - Certified English language translation provided.

EXAMINER	<i>Marie R. Yarnitzky</i>	DATE CONSIDERED	<i>12/10/02</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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